# This Page Is Inserted by IFW Operations and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

### IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



REPLACEMENT SHEET

Title: SACROMASTIGOPHORIC THERAPEUTIC AGENT DELIVERY SYSTEM
Serial No. 10/735,203
Applicant: Lawrence W. Cosens
Atty. Docket: DSI-10402/22 Applicant: Lawrence W. Cosenza Attorney: Avery N. Goldstein (248) 647-6000

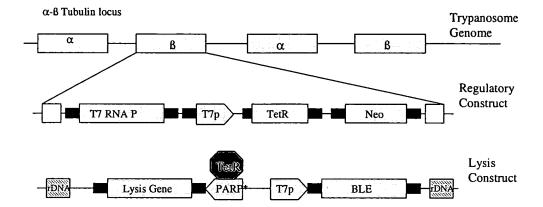


Figure 1

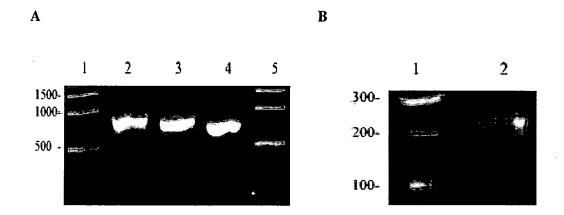


Figure 2

REPLACEMENT SHEET

Title: SACROMASTIGOPHORIC THERAPEUTIC AGENT DELIVERY SYSTEM
Serial No. 10/735,203 Applicant: Lawrence W. Cosenza
Atty. Docket: DSI-10402/22 Attorney: Avery N. Goldstein (248) 647-6000

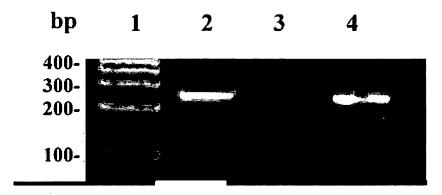


Figure 3

promVP4	1	ACCGAAATTAATACGACTCACTATAGGGGAA
promVP3	1	ATAGCATG-GTACC
Droman2	1	
	-	(KpnI)
promVP2	1	ATATTAGGCGCCC
		(AscI)
promVP1	1	AATTATTCGAATTAGCAAGAAGATATTGT
_		(NspV) L A R R Y C
promVP4	32	TTGTGAGCGGATAACAATTCCCCGGAGTTAATCCGGGACCTTTAATTCAACCCAACACAA
promVP3	45	
promVP2	46	
promVP1	61	
promVP4	92	TATATTATAGTTAAATAAGAATTATTATCAAATCATTTGTATATTAATTA
promVP3	105	
promVP2	106	
promVP1	121	
promVP4	152	CTGTAAATTACATTTTATTTACAATCAAAGGAGATAT-AC
promVP3	165	TGCTAGCTACCTTCGAA
(NheI)		(NspV)
promVP2	166	
•		(NarI) (PstI)
promVP1	181	AGACTAGTAATAAGCGGCCGC
(SpeI)	C	NotI)
promVP4	``	
promVP3	225	CTAGTATT
promVP2	225	TTAAT
promVP1	239	ТТТАТТТА
Promort	233	11101110

Figure 4

REPLACEMENT SHEET

Title: SACROMASTIGOPHORIC THERAPEUTIC AGENT DELIVERY SYSTEM

Serial No. 10/735,203 Applicant: Lawrence W. Cosenza

Atty. Docket: DSI-10402/22 Attorney: Avery N. Goldstein (248) 647-6000

native Recombinant	1GGTGATGTGCAGAATGCTGTCGAAGGGGCTATGGTCAGGGTGGCAGATACAGTGCAA 1 ATG
native Recombinant	58 ACTTCAGCCACAAACTCAGAGAGGGTGCCTAACTTGACAGCAGTAGAAACTGGTCACACT 61
native Recombinant	118 TCGCAGGCAGTACCTGGTGATACCATGCAGACTAGACATGTGATCAACAATCACGTGAGG 121T
native Recombinant	178 TCAGAATCTACAATTGAGAACTTCCTTGCCAGATCAGCGTGTGTTTTCTACCTAGAGTAC 181
native Recombinant	238 AAGACAGGGACCAAAGAGGATTCCAATAGCTTCAACAATTGGGTGATTACAACCAGGCGA 241
native Recombinant	298 GTGGCTCAACTACGTAGAAAACTGGAAATGTTTACTTACCTACGGTTTGACATGGAAATC 301GT
native Recombinant	358 ACCGTGGTCATTACAAGCTCGCAAGATCAGTCTACATCACAAAACCAGAATGCACCAGTG 361
native Recombinant	418 CTAACACACCAGATAATGTATGTACCACCAGGGGGACCCATACCCGTAAGCGTGGATGAT 421A
native Recombinant	478 TACAGCTGGCAAACATCCACCAACCCCAGTATCTTTTGGACCGAAGGGAACGCTCCGGCA 481
native Recombinant	538 CGCATGTCAATTCCATTTATTAGCATAGGCAATGCGTATAGTAATTTCTACGATGGGTGG 541
native Recombinant	598 TCTCACTTCTCCCAGGCTGGCGTGTATGGCTTCACTACTCTGAACAACATGGGTCAATTG 601
native Recombinant	658 TTCTTCCGGCACGTAAACAAGCCCAACCCAGCCGCTATTACAAGTGTGGCGCGCATTTAC
native Recombinant	718 TTCAAACCGAAACATGTACGCGCTTGGGTGCCTAGACCACCGCGCTTGTGTCCATACATC 721
native Recombinant	778 AATAGCACGAATGTCAACTTTGAACCCAAGCCAGTGACTGAAGTACGTAC
native Recombinant	838 ACAACG
native Recombinant	901 GAAGACCCCGAGGATCTCGAGCACCATCACCATCACCATCAC

Figure 5

REPLACEMENT SHEET

Title: SACROMASTIGOPHORIC THERAPEUTIC AGENT DELIVERY SYSTEM
Serial No. 10/735,203 Applicant: Lawrence W. Cosenza
Atty. Docket: DSI-10402/22 Attorney: Avery N. Goldstein (248) 647-6000

4/7

Native recombinant	_	TCTCCAACGGTTGAAGAGTGCGGGTACAGTGACAGGGTCAGGTCAATCACACTTGGG
Native recombinant		AACTCCACTATTACAACTCAAGAGTGTGCCAATGTGGTGGTGGGGTACGGTGAATGGCCT
Native recombinant		GAGTATCTGAGTGATAACGAGGCAACTGCTGAGGACCAACCA
Native recombinant	178 181	ACTTGCCGTTTTTACACCCTAGACTCAGTCCAATGGGAGAATGGGTCACCAGGTTGGTGG
Native recombinant		TGGAAGTTTCCCGACGCTCTAAGGGATATGGGGATTATTTGGCCAAAATATGTACTACCAT
Native recombinant		TACTTAGGCAGAGCCGGGTATACCATCCACGTACAATGCAATGCTTCCAAGTTTCATCAA
Native recombinant	358 361	GGCTGTATCCTGGTAGTGTGTCCCTGAGGCGGAGATGGGAAGTGCCCAAACCTCAGGG
Native recombinant	418 421	GTGGTCAACTACGAACACATTAGTAAGGGTGAGATCGCATCAAGGTTCACTACCACGACA
Native recombinant		ACAGCAGAAGACCATGGCGTGCAGGCCGCGGTATGGAATGCTGGTATGGGCGTTGGAGTT
Native recombinant		GGGAACTTGACGATCTTCCCGCACCAATGGATCAACCTTCGCACCAACAACAGCGCCACA
Native recombinant		ATTGTTATGCCATACGTAAATAGTGTACCAATGGACAATATGTATAGACATCACAACTTT
Native recombinant		ACACTAATGATAATACCCTTTGTGCCTCTGGATTTCAGCGCGGGTGCATCCACATACGTG
Native recombinant	718 721	CCCATAACGGTGACAGTGGCCCCCATGTGTGCCGAGTACAATGGACTACGACTAGCTGGA
		CACCAATAGTAG

Figure 6

REPLACEMENT\_SHEET

Title: SACROMASTIGOPHORIC THERAPEUTIC AGENT DELIVERY SYSTEM
Serial No. 10/735,203 Applicant: Lawrence W. Cosenza
Atty. Docket: DSI-10402/22 Attorney: Avery N. Goldstein (248) 647-6000

native Recombinant	1 GGTGATGTGCAGAATGCTGTCGAAGGGGCTATGGTCAGGGTGGCAGATACAGTGCAAACT 1
native Recombinant	61 TCAGCCACAAACTCAGAGAGGGTGCCTAACTTGACAGCAGTAGAAACTGGTCACACTTCG 57
native Recombinant	121 CAGGCAGTACCTGGTGATACCATGCAGACTAGACATGTGATCAACAATCACGTGAGGTCA 116T
native Recombinant	181 GAATCTACAATTGAGAACTTCCTTGCCAGATCAGCGTGTGTTTTCTACCTAGAGTACAAG 176TG
native Recombinant	241 ACAGGGACCAAAGAGGATTCCAATAGCTTCAACAATTGGGTGATTACAACCAGGCGAGTG 236
native Recombinant	301 GCTCAACTACGTAGAAAACTGGAAATGTTTACTTACCTACGGTTTGACATGGAAATCACC 296 .GT
native Recombinant	361 GTGGTCATTACAAGCTCGCAAGATCAGTCTACATCACAAAACCAGAATGCACCAGTGCTA 356
native Recombinant	421 ACACACCAGATAATGTATGTACCACCAGGGGGACCCATACCCGTAAGCGTGGATGATTAC 416
native Recombinant	481 AGCTGGCAAACATCCACCAACCCCAGTATCTTTTGGACCGAAGGGAACGCTCCGGCACGC 476
native Recombinant	541 ATGTCAATTCCATTTATTAGCATAGGCAATGCGTATAGTAATTTCTACGATGGGTGGTCT 536A
native Recombinant	601 CACTTCTCCCAGGCTGGCGTGTATGGCTTCACTACTCTGAACAACATGGGTCAATTGTTC 596
native Recombinant	661 TTCCGGCACGTAAACAAGCCCAACCCAGCCGCTATTACAAGTGTGGCGCGCATTTACTTC 656
native Recombinant	721 AAACCGAAACATGTACGCGCTTGGGTGCCTAGACCACCGCGCTTGTGTCCATACATCAAT 716
native Recombinant	781 AGCACGAATGTCAACTTTGAACCCAAGCCAGTGACTGAAGTACGTAC
native Recombinant	841 ACG836ATCATCGCGGCCGCACAGCTGTATACACGTGCAAGCCAGCC
native Recombinant	896 GACCCCGAGGATCTCGAGCACCATCACCATCACCATCAC

Figure 7

REPLACEMENT SHEET

Title: SACROMASTIGOPHORIC THERAPEUTIC AGENT DELIVERY SYSTEM rial No. 10/735,203
Applicant: Lawrence W. Cosenza Attorney: Avery N. Goldstein (248) 647-6000 Serial No. 10/735,203 Atty. Docket: DSI-10402/22

Native Recombinant	1 ATGGGAGCACAGGTATCAACACAGAAGACCGGGGCGCACGAGACTAGCTTGAGCGCTACT 1CGAT.TC
Native Recombinant	61 GGCAACTCCATAATACACTACACGAATATTAATTATTACAAAGATGCAGCCTCTAACTCT 61
Native Recombinant	121 GCCAATAGACAAGATTTCACCCAAGACCCTGGTAAGTTTACTGAACCAATGAAAGATGTC 121
Native Recombinant	181 ATGATAAAAACCCTGCCAGCGCTGAAT 181

Figure 8

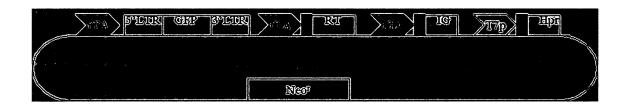


Figure 9

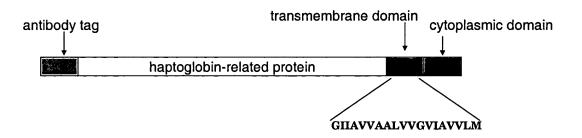


Figure 10

REPLACEMENT SHEET

Title: SACROMASTIGOPHORIC THERAPEUTIC AGENT DELIVERY SYSTEM
Serial No. 10/735,203
Applicant: Lawrence W. Cosenza
Atty. Docket: DSI-10402/22
Attorney: Avery N. Goldstein (248) 647-6000

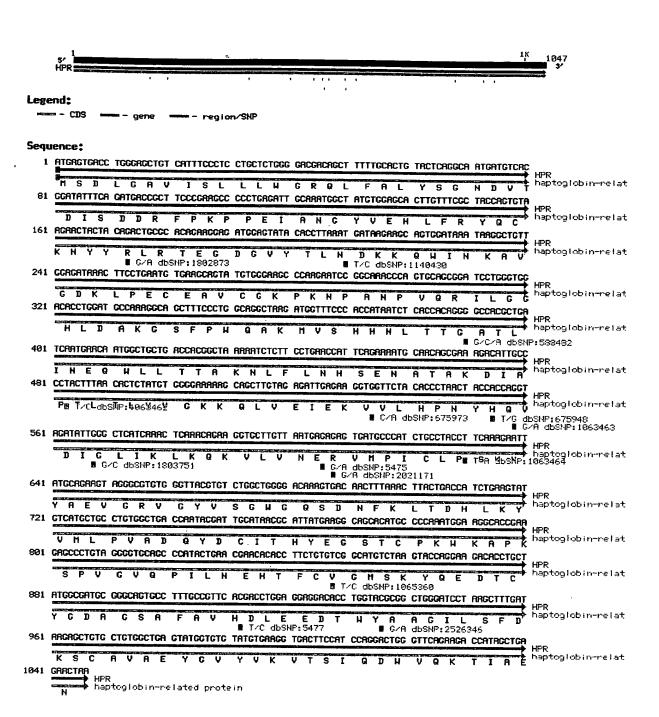


Figure 11

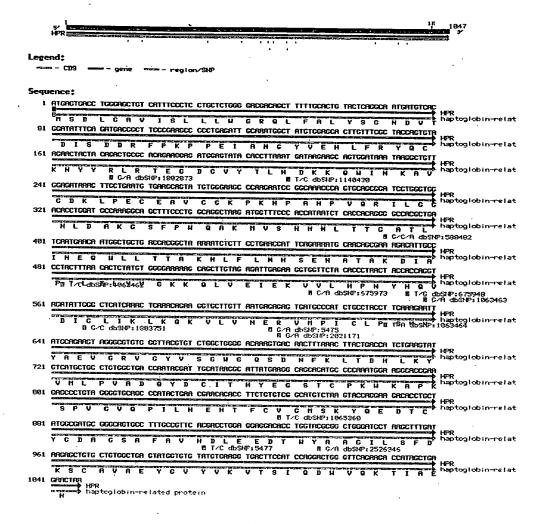


Figure 11